



Informatica® PowerExchange® 10.5.4 Release Notes May 2023

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Read the *Informatica® PowerExchange® Release Notes* to get important information about enhancements, fixed issues, and known issues in PowerExchange 10.5.4. The release notes also include upgrade considerations, if applicable.

To access the PowerExchange 10.5.4 documentation set, browse the Informatica Documentation Portal at <https://docs.informatica.com>.

Enhancements

The following table describes closed enhancement requests:

Enhancement	Description
PWX-10682	MySQL CHAR datatypes are now mapped as VARCHAR datatypes, which removes a previous padding issue and reduces the memory footprint.
PWX-10671	You can now select an option to use a secure connection to the IBM i server when running the IBM i Installer.
PWX-10667	PowerExchange now supports PostgreSQL 15 sources for CDC.

Fixed issues

The following table describes fixed issues:

Issue	Description
PWX-10767	When processing P-Logs on z/OS, ECCRs report multiple active UOWs found at shutdown. A corresponding number of unexpected in-flight messages are generated.
PWX-10763	If a SQL transformation uses ODBC for PowerExchange connections, an INSERT INTO SELECT query in the transformation might fail.
PWX-10745	During PowerExchange Express CDC processing of an Oracle source in a RAC environment, one of the Oracle RAC nodes failed. Oracle switched automatically to another node and the job continued running. However, the job did not fetch any change records from the database from the time the failure occurred. For the change records to be processed, the job had to be stopped and then restarted.
PWX-10725	In the PowerExchange Navigator, a database row test of a data map created from an imported Datacom table ends with the following error: PWX-00949 Missing double-quote at end of input statement
PWX-10724	The PowerExchange Logger for z/OS might encounter the following error when archiving active log data sets on a high-volume z/OS system: PWXEDM172642E Log allocation error DSName=archive_log_name, error status=status_code
PWX-10722	When SECURITY=(2,...) is configured in the DBMOVER member on z/OS and a pwxcmd command is issued frequently from a remote client, PowerExchange abends with code S878-10 because of a storage leak in the 16M storage area.
PWX-10713	When you upgrade PowerExchange to a new version using a bulk connection, the upgrade process generates several jobs, including the SETUBL1E job. When you run the SETUBL1E job to complete the upgrade, the job ends with errors.
PWX-10697	If the Oracle Express CDC log reader encounters a truncated or invalid archive log when running in ARCHIVECOPY mode and an alternate log is not available, it might fail. With this fix, a warning message is issued and the reader continues to monitor the log and look for an alternate log until the wait time specified in the LOGARCHIVEWAIT parameter expires. This change helps make reader processing more resilient to network or NFS interruptions.
PWX-10694	When the creation of a new index generates index backout entries, PowerExchange Express CDC for Oracle can fail when processing the backout entries.
PWX-10686	If the MEMCACHE value in the UOWC statement in the DBMOVER member on z/OS is too large, the PowerExchange Listener might fail with memory allocation errors under a heavy load with more than 100 tasks. The PowerExchange Listener usually suspends the processing of incoming connection requests if the available memory is less than 50 MB or the amount specified in the JOB_START_MINIMUM_MEMORY_MB statement in the DBMOVER member.
PWX-10656	If you use the pwxcmd program to issue commands to a PowerExchange Listener on IBM i and the port you specified in the SVCNODE statement is in use, PowerExchange does not report that the port is in use.

Issue	Description
PWX-10653	<p>CDC sessions and database row tests with an IMS source might encounter the following error when dynamically allocating memory to load a data set when the PC_AUTH statement in the DBMOVER member is set to Y:</p> <pre>PWX-00220 DYNALLOC failed. rc=12. Error code=X'368'. Information code=X'0'. File hlq.dataset.</pre> <p>The problem occurs because access to the data set requires APF authorization but the PC_AUTH=Y setting disables APF use for this purpose.</p>
PWX-10651	<p>When the PowerExchange Logger log reader reads a record from the tip of the log that is greater than 32 KB in size, it splits the record into multiple parts. Some parts are picking up invalid data. When downstream consumers read the logged data, they might fail.</p>
PWX-10630	<p>When PowerExchange alternate logging is enabled on an IBM i system, PowerExchange might generate an excessive number of unlogged messages, which can cause the disk space limit for the user to be exceeded.</p>
PWX-10612	<p>If you specify a schema override in a CDC session for extraction map sources, the override schema name is in the case of first extraction map processed, which might be different from the case in which the override schema name was specified.</p>

Known issues

The following table describes known issues:

Issue	Description
PWX-10823	<p>If a SAP HANA CDC source includes a VARBINARY column with the value of Hex'00', the column is truncated at the point where the Hex'00' value appears during CDC processing.</p> <p>Workaround: None.</p>
PWX-10575	<p>If you see the following message when you open an IMS data map in the PowerExchange Navigator, you need to modify the Key field value in the segment record properties:</p> <pre>PWX-01574 IMS datamap regress.bigims32.dmp field BRTKEY has search field type 'S' which is deprecated. Please change to 'U'</pre> <p>In this message, regress.bigims32.dmp is the data map name and BRTKEY is the key field for one of the segments.</p> <p>Workaround: In the PowerExchange Navigator > Resource Explorer > Data Map tab, right-click the segment record and select Properties. On the Search Fields tab, if you see the key field from the message (BRTKEY in the sample message), change the Key value from 'S' to 'U'. Then save the data map and send it to the PowerExchange Listener on z/OS.</p>
PWX-10034	<p>If you selected the Full Audit option in a capture registration for a SAP HANA CDC source, the shadow _CDC table and SAP HANA triggers are generated when the PowerExchange Logger for LUW starts. However, if a shadow_CDC table was dropped and one or more of the corresponding triggers still exist, the table is not created. If the PowerExchange Logger then tries to restart from an earlier restart point without a shadow _CDC table, it ends abnormally.</p> <p>Workaround: Before starting the PowerExchange Logger, either manually re-create the shadow _CDC table or drop the triggers.</p>

Issue	Description
PWX-9939	<p>If you enter a passphrase that includes an apostrophe in the Password field in a PWX application connection in PowerCenter, the session fails.</p> <p>Workaround: Do not specify a passphrase that includes an apostrophe.</p>
PWX-9859	<p>If your PostgreSQL installation is configured to use the scram-sha-256 password encryption method, PowerExchange database connections will fail.</p> <p>Workaround: Disable scram-sha-256 encryption by setting password_encryption=md5 in the postgresql.conf configuration.</p>
PWX-9647	<p>During PowerExchange CDC for Db2 for i processing, the PowerExchange Listener on IBM i intermittently hangs if alternate logging is enabled. A connection error is issued.</p> <p>Workaround: Disable alternate logging and try running the job again</p>
PWX-9014	<p>If you select View Paths for an IDMS capture registration in the PowerExchange Navigator, the parent hierarchy for the IDMS base record is not displayed.</p>
PWX-8930	<p>The IMS log-based ECCR REFRESH command causes the ECCR to end abnormally.</p>
PWX-8563	<p>In the PowerExchange Navigator, if you open a Microsoft SQL Server capture registration and click Save, the PowerExchange Navigator creates a new SQL Server article and deletes the previous one even if no changes were made to the registration. The data associated with the previous SQL Server article is deleted.</p> <p>Workaround: Do not click Save unless you are making changes to the capture registration.</p>
PWX-8527	<p>After a PowerExchange IMS ECCR REFRESH operation, CDC processing might fail with an SVC99 error because of an IMS log deletion.</p> <p>Workaround: Stop and restart the IMS ECCR and the PowerExchange Listener on the system where change capture occurs.</p>
PWX-8333	<p>During PowerExchange Express CDC for Oracle, a transaction assembler error might occur for indexed-organized tables (IOTs) that contain OVERFLOW tables with chained rows. The following error message is issued:</p> <p>PWX-36465 ORAD Info: DML sequence error: Subordinate DML sequence and active DML sequence is not only kdolkr/kdolmn/kdollar.</p>
PWX-8097	<p>The PWXUCDCT utility fails with a segmentation fault when running a derive_cdct_backup command and trying to process corrupted PowerExchange Logger log records. The messages that the utility issues do not contain useful diagnostic information.</p> <p>Workaround: Ensure that the EXT_CAPT_MASK parameter value in the PowerExchange Logger configuration file is correct and that the Logger log files exist.</p>
PWX-7917	<p>If you select the Pre SQL run once per Connection check box in a PWXPC connection definition for a nonrelational target, any SQL statements that you specify in the Pre SQL connection attribute will not be executed.</p> <p>Workaround: Clear the Pre SQL run once per Connection check box to allow the SQL to run one or more times for the connection.</p>
PWX-7202	<p>If you define a PowerCenter session that uses a PWX NRDB Lookup relational connection and set the TCPIP_OP_TIMEOUT and TCPIP_CON_TIMEOUT overrides in the PWX Override connection attribute, the session fails.</p> <p>Workaround: Use the connection string to specify the overrides.</p>

Issue	Description
PWX-7104	If you issue a pwxcmd command such as displaystats to an ECCR on a z/OS system, the pwxcmd command handler might hang. This problem occurs when the amount of command output is greater than 4 KB.
PWX-7033	<p>If the PowerExchange Agent encounters an error in the DBMOVER configuration file, it does not end processing as expected. As a result, the Agent cannot successfully connect to the PowerExchange Listener for change data capture.</p> <p>Workaround: Shut down the PowerExchange Agent by using the SHUTDOWN COMPLETELY command. Edit the DBMOVER configuration file to correct the error and then restart the PowerExchange Agent.</p>
PWX-6917	For PowerExchange on z/OS, if you use the IPV6 protocol for a TCP/IP connection, the IP address is truncated in SMF reports. The connection is not affected, but the IP address is not complete in SMF.
PWX-1971	<p>If the file permissions on the directory path that is defined in the LOGPATH statement in the DBMOVER configuration file on the Linux Data Integration Service machine are not set correctly, a core dump occurs and a Java Runtime Environment fatal error is reported.</p> <p>Workaround: Ensure that the file permissions are not too restrictive. Permissions of 755 are sufficient. (459102)</p>
PWX-1672	<p>A CAPXRT database row test in the PowerExchange Navigator for an IMS complex table source returns no changes even though the PowerExchange Logger for z/OS contains data for the source. This problem occurs when a capture registration is re-created for the source with the same tag name as the previous registration and the new registration includes an additional IMS segment. As a result, PowerExchange cannot map the new registration to the data in the PowerExchange Logger log files.</p> <p>Workaround: None available. Contact Informatica Global Customer Support. (409991)</p>
PWX-1521	<p>If you capture change data from a Db2 for Linux, UNIX, and Windows source table that uses range partitioning and a DDL operation that adds, attaches, or detaches a partition is performed on the table, data loss might occur and cause data corruption on the target.</p> <p>Workaround: Do not issue DDL statements that add, attach, or detach a partition for a source table. Alternatively, if you must perform these DDL operations on a source, before you start CDC processing, synchronize the source and target tables by using PowerExchange bulk data movement or another tool. (395055)</p>
PWX-1387	If you use PowerCenter to write Updates to a PowerExchange target and an Update fails, the PowerCenter session log displays an incorrect counts of Update rows in the Load Summary. An Update might fail, for example, because the target record does not exist. (375568)
PWX-1271	<p>When you import a copybook that contains certain German-language characters, such as 'ß' or vowels with umlauts, into a PowerExchange data map, the lines that contain these characters are not imported.</p> <p>Workaround: If these German-language characters appear within comments, edit the comments to remove or replace the characters. (350646)</p>
PWX-1184	<p>When you create a data map in the PowerExchange Navigator, if you import a PL/I copybook and enter Start and End values that define a column range that includes line sequence numbers, the PowerExchange Navigator might add an extraneous "NEW_RECORD__" record and then either fail or produce unpredictable results.</p> <p>Workaround: When importing a PL/I copybook, do not define a column range or accept a default column range that includes line sequence numbers. (331003)</p>

Issue	Description
PWX-1143	When you import a PL/1 copybook for a z/OS source into a data map from the PowerExchange Navigator, the import succeeds, but the import record is not created.
PWX-825	When you run a CDC session that includes a password-protected Adabas data source and uses the CAPXRT access method and offload processing, the session fails. (257540)

Note: The current bug tracking system uses bug IDs that begin with the "PWX-" prefix. The previous tracking system used bug IDs that consist of six numbers. For known limitations that carried over from an earlier release and now have a PWX-*nnnn* bug ID, you can find the previous bug ID at the end of the description in parentheses.

PowerExchange 10.5.4 Installation and Upgrades

Follow the procedures in the *PowerExchange 10.5.4 Installation and Upgrade Guide* for a full or upgrade installation.

Informatica Global Customer Support

You can contact a Global Support Center by telephone or through the Informatica Network.

To find your local Informatica Global Customer Support telephone number, visit the Informatica website at the following link:

<https://www.informatica.com/services-and-training/customer-success-services/contact-us.html>.

To find online support resources on the Informatica Network, visit <https://network.informatica.com> and select the eSupport option.